

SOLICITATION, OFFER AND AWARD		1. THIS CONTRACT IS A RATED ORDER UNDER DPAS (15 CFR 350)		RATING D0-C9	PAGE OF 1 30 PAGES
2. CONTRACT NO.	3. SOLICITATION NO. N00173-04-R-RS08	4. TYPE OF SOLICITATION <input type="checkbox"/> SEALED BID (IFB) <input checked="" type="checkbox"/> NEGOTIATED (RFP)	5. DATE ISSUED 13 SEP 2004	6. REQUISITION/PURCHASE NO. 67-0405-04	
7. ISSUED BY Procuring Contracting Officer, Code 3235:RS Naval Research Laboratory - SSC Department of the Navy Stennis Space Center, MS 39529-5004		8. ADDRESS OFFER TO (If other than Item 7) 			

NOTE: In sealed bid solicitations "offer" and "offeror" mean "bid" and "bidder".

SOLICITATION

9. Sealed offers in original and 4 copies for furnishing the supplies or services in the Schedule will be received at the place specified in Item 8, or if handcarried, in the depository located in BLDG. 1007, RM 45, SSC, MS 39529-5004 until 3:30 local time 12 OCT 2004
(Hour) (Date)

CAUTION - LATE Submissions, Modifications, and Withdrawals: See Section L, Provision No. 52.214-7 or 52.215-10. All offers are subject to all terms and conditions contained in this solicitation.

10. FOR INFORMATION CALL:	A. NAME RICHARD D. SEWELL	B. TELEPHONE NO. (Include area code) (NO COLLECT CALLS) 228-688-4571
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11. TABLE OF CONTENTS

(✓)	SEC.	DESCRIPTION	PAGE(S)	(✓)	SEC.	DESCRIPTION	PAGE(S)
PART I - THE SCHEDULE				PART II - CONTRACT CLAUSES			
<input checked="" type="checkbox"/>	A	SOLICITATION/CONTRACT FORM	1	<input checked="" type="checkbox"/>	I	CONTRACT CLAUSES	14-18
<input checked="" type="checkbox"/>	B	SUPPLIES OR SERVICES AND PRICES/COSTS	2	PART III - LIST OF DOCUMENTS, EXHIBITS AND OTHER ATTACH.			
<input checked="" type="checkbox"/>	C	DESCRIPTION/SPECS./WORK STATEMENT	2	<input checked="" type="checkbox"/>	J	LIST OF ATTACHMENTS	19
<input checked="" type="checkbox"/>	D	PACKAGING AND MARKING	3	PART IV - REPRESENTATIONS AND INSTRUCTIONS			
<input checked="" type="checkbox"/>	E	INSPECTION AND ACCEPTANCE	3	<input checked="" type="checkbox"/>	K	REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS	20
<input checked="" type="checkbox"/>	F	DELIVERIES OR PERFORMANCE	4	<input checked="" type="checkbox"/>	L	INSTRS., CONDS., AND NOTICES TO OFFERORS	21-28
<input checked="" type="checkbox"/>	G	CONTRACT ADMINISTRATION DATA	5-8	<input checked="" type="checkbox"/>	M	EVALUATION FACTORS FOR AWARD	29-30
<input checked="" type="checkbox"/>	H	SPECIAL CONTRACT REQUIREMENTS	9-13				

OFFER (Must be fully completed by offeror)

NOTE: Item 12 does not apply if the solicitation includes the provisions at 52.214-16, Minimum Bid Acceptance Period.

12. In compliance with the above, the undersigned agrees, if this offer is accepted within _____ calendar days (60 calendar days unless a different period is inserted by the offeror) from the date for receipt of offers specified above, to furnish any or all items upon which prices are offered at the price set opposite each item, delivered at the designated point(s), within the time specified in the schedule.

13. DISCOUNT FOR PROMPT PAYMENT (See Section I, Clause No. 52-232-8)	10 CALENDAR DAYS	20 CALENDAR DAYS	30 CALENDAR DAYS	CALENDAR DAYS
	%	%	%	%
14. ACKNOWLEDGMENT OF AMENDMENTS (The offeror acknowledges receipt of amendments to the SOLICITATION for offerors and related documents numbered and dated:	AMENDMENT NO.		DATE	

15A. NAME AND ADDRESS OF OFFEROR	CODE	FACILITY	16. NAME AND TITLE OF PERSON AUTHORIZED TO SIGN OFFER (Type or print)
15B. TELEPHONE NO. (Include area code)		15C. CHECK IF REMITTANCE ADDRESS IS DIFFERENT FROM ABOVE - ENTER SUCH ADDRESS IN SCHEDULE.	17. SIGNATURE
			18. OFFER DATE

AWARD (To be completed by Government)

19. ACCEPTED AS TO ITEMS NUMBERED	20. AMOUNT	21. ACCOUNTING AND APPROPRIATION
22. AUTHORITY FOR USING OTHER THAN FULL AND OPEN COMPETITION: <input type="checkbox"/> 10 U.S.C. 2304(c) () <input type="checkbox"/> 41 U.S.C. 253(c) ()		23. SUBMIT INVOICES TO ADDRESS SHOWN IN (4 copies unless otherwise specified)
24. ADMINISTERED BY (If other than Item 7) CODE		25. PAYMENT WILL BE MADE BY CODE
26. NAME OF CONTRACTING OFFICER (Type or print)		27. UNITED STATES OF AMERICA (Signature of Contracting Officer)
		28. AWARD DATE

IMPORTANT - Award will be made on this Form, or on Standard Form 26, or by other authorized official written notice.

PART I - THE SCHEDULE
SECTION B
SUPPLIES OR SERVICES AND PRICES/COSTS

B-1 SUPPLIES/SERVICES AND COSTS

ITEM NUMBER	SUPPLIES/SERVICES	ESTIMATED COST	FIXED FEE	ESTIMATED COST PLUS FIXED FEE
0001	The Contractor shall provide the necessary personnel, equipment and facilities to accomplish the work as described in Section C.	\$	\$	\$
0002	Reports, Data, Software and Documentation in accordance with Exhibit A (DD 1423) and Attachment (1)		* NSP	* NSP
TOTAL ESTIMATED COST		FIXED FEE:	\$	\$

* *Not Separately Priced*

NOTICE TO OFFERORS: In addition to inserting the estimated cost and fixed fee for the base year above, the estimated cost and fixed fee for each optional extension of the term of the contract are to be inserted in Section H.

SECTION C
DESCRIPTION/SPECIFICATIONS/STATEMENT OF WORK

C-1 STATEMENT OF WORK

The work and services to be performed hereunder shall be subject to the requirements and standards contained in Attachment (1), Statement of Work, with Exhibit A, Contract Data Requirements List, and all other Attachments cited in Section J, which are incorporated by reference into Section C.

C-2 REQUIREMENTS FOR ON-SITE CONTRACTORS

For those portions of the work under this contract performed at any NRL site, the contractor shall comply with the Requirements for On-Site Contractors dated 30 July 2004, which are hereby incorporated by reference. The full text is available at <http://heron.nrl.navy.mil/contracts/home.htm>.

**SECTION D
PACKAGING AND MARKING**

D-1 PACKAGING AND MARKING

Preservation, packaging, packing and marking of all deliverable contract line items must conform to normal commercial packing standards to assure safe delivery at destination.

**SECTION E
INSPECTION AND ACCEPTANCE**

E-1 INSPECTION AND ACCEPTANCE CLAUSES INCORPORATED BY REFERENCE

FAR CLAUSE TITLE

52.246-8 - Inspection Of Research And Development - Cost Reimbursement (MAR 2001)

DFARS CLAUSE TITLE

252.246-7000 - Material Inspection And Receiving Report (MAR 2003)

E-2 INSPECTION AND ACCEPTANCE

Inspection and acceptance of the final delivery will be accomplished by the Technical Manager (TM) or Contracting Officer Representative (COR) designated in Section G of this contract. Inspection and acceptance will be performed at the Naval Research Laboratory, Washington DC 20375-5320.

**SECTION F
DELIVERIES OR PERFORMANCE**

F-1 DELIVERIES OR PERFORMANCE CLAUSES INCORPORATED BY REFERENCE:

<u>FAR CLAUSE</u>	<u>TITLE</u>
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52.242-15	- Stop-Work Order (AUG 1989) - Alternate I (APR 1984)
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52.247-34	- F.O.B. Destination (NOV 1991)
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F-2 PERIOD AND PLACE OF PERFORMANCE

(a) The term of this contract shall be a period of twelve (12) months from the date of contract award. The period of performance for each subsequent option, if exercised, shall be for an additional twelve (12) month period.

(b) The principal place of performance of this contract shall be at **Contractor's Facility**

SECTION G
CONTRACT ADMINISTRATION DATA

G-1 PROCURING OFFICE REPRESENTATIVE

In order to expedite administration of the contract, the Administrative Contracting Officer (ACO) will direct inquiries to the appropriate office listed below. Please do not direct routine inquiries to the person listed in Item 20A on Standard Form 26.

Security Matters- Contracting Officer for Security, Code 1221, (202) 767-2240, DSN 297-2240, email security-group@nrl.navy.mil

Safety Matters- Head Safety Branch, Code 3540, (202) 767-2232, DSN 297-2232, email safety@nrl.navy.mil

Patent Matters-Associate Counsel (Intellectual Property), Code 1008.2, (202) 404-1552, DSN 297-1552, email patents@nrl.navy.mil

Release of Data-Public Affairs Officer, Code 1030 (202) 767-2541, DSN 297-2541, email publicaffairs@nrl.navy.mil

G-2 CONTRACTING OFFICER'S REPRESENTATIVE (COR) - FUNCTIONS AND LIMITATIONS

* is hereby designated the cognizant COR who will represent the Contracting Officer in the administration of technical details within the scope of this contract and inspection and acceptance. The COR is not otherwise authorized to make any representations or commitments of any kind on behalf of the Contracting Officer or the Government. The COR does not have the authority to alter the Contractor's obligations or change the specifications in the contract. If, as a result of technical discussions, it is desirable to alter contract obligations or statements of work, a modification must be issued in writing and signed by the Contracting Officer. The COR is responsible for reviewing the bills and charges submitted by the Contractor and informing the ACO of areas where exceptions are to be taken.

(* To be completed at time of award)

G-3 TECHNICAL DIRECTION MEMORANDUM (TDM)

- (a) For the purposes of this clause, technical direction includes the following:
- (1) Direction to the Contractor which shifts work emphasis between work areas or tasks, requires pursuit of certain lines of inquiry, fills in details or otherwise describes work which will accomplish the objectives described in the statement of work;
 - (2) Guidelines to the Contractor, which assist in interpretation of drawings, specifications or technical portions of, work description.
- (b) Technical instructions must be within the scope of work stated in the contract. Technical instructions may not be used to:
- (1) Assign additional work under the contract;
 - (2) Direct a change as defined in the contract clause entitled "Changes";

- (3) Increase or decrease the estimated contract cost, the fixed fee, or the time required for contract performance; or
- (4) Change any of the terms, conditions or specifications of the contract
- (c) The TDM shall be written by the Contracting Officer's Representative (COR), with the original given to the Contractor and a copy retained in the CORs file. Technical direction may be issued orally only in emergency situations. If technical direction is issued orally, a TDM must follow within two (2) working days from the date of the oral direction. Amendments, corrections, or changes to TDMs shall also be in written format and shall include all the information set forth in paragraph (e) below.
- (d) A TDM shall be considered issued when the Government deposits it in the mail, or if transmitted by other means, when it is physically delivered to the contractor.
- (e) TDMs shall include, but not be limited to, the following information:
 - (1) Date of TDM,
 - (2) Contract Number,
 - (3) Reference to the relevant portion or item in the Statement of Work,
 - (4) The specific technical direction or clarification, and
 - (5) The signature of the COR.
- (f) CORs shall retain all files containing TDMs for a period of two (2) years after the final contract completion date.
- (g) The only individual authorized in any way to amend or modify any of the terms of this contract shall be the Contracting Officer. When, in the opinion of the Contractor, any technical direction calls for effort outside the scope of the contract or inconsistent with this special provision, the Contractor shall notify the Contracting Officer in writing within ten (10) working days after its receipt.

G-4 CONTRACTOR-ACQUIRED PROPERTY

- (a) The contractor is authorized to acquire the following items of facilities, which are needed to accomplish this contract.

Items to be Acquired

Estimated Cost

*

*(*this provision will be included and completed at time of award, if applicable)*

- (b) This authorization does not constitute any consent required pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2). Advance notification or requests for consent pursuant to that clause shall be directed to the administrative contracting officer (ACO).
- (c) Pursuant to the contract clause entitled "Government Property (Cost-Reimbursement, Time-and-Material, or Labor-Hour Contracts)" (FAR 52.245-5), title to the property shall vest in the Government.
- (d) Prior to acquisition of any item of Industrial Plant Equipment, the Contractor must comply with the requirements of Department of Defense Federal Acquisition Regulation Supplement (DFARS 245.302-1(b)(1)(A). (See DFARS 245.301 for definition of "Industrial Plant Equipment.")

G-5 SUBCONTRACTORS/CONSULTANTS

(a) Advance notification or requests for consent pursuant to the contract clause entitled "Subcontracts" (FAR 52.244-2) shall be directed to the cognizant administrative contracting officer (ACO).

(b) The following subcontractors/consultants have been identified in the Contractor's proposal as necessary for performance of this contract:

Subcontractor/Consultant Name

Estimated Cost

(Paragraph (b) will be included and filled in at time of award if subcontractor/consultants are proposed by the successful offeror)

G-6 INCREMENTAL FUNDING

Pursuant to the Limitation of Funds clause (FAR 52.232-22), the total amount allotted to this contract is \$* and it is estimated that this amount is sufficient for contract performance through *.

*(*this provision will be included and completed at time of award, if applicable)*

G-7 INFORMATIONAL SUBLINE ITEMS

It is anticipated that the research and development services performed under this contract will be paid for from multiple sources of funds. Informational subline items will be established as necessary to identify each accounting citation classification.

G-8 SPECIAL PAYMENT INSTRUCTIONS- MULTIPLE ACCOUNTING CLASSIFICATION CITATIONS (COST-REIMBURSEMENT)

Payments shall be made in accordance with the ACRN(s) cited on the contractor's invoice. The Contractor may contact the COR regarding which ACRN(s) to cite on an invoice.

G-9 PAYMENT AND INVOICE INSTRUCTIONS (COST REIMBURSEMENT)**Submission of Invoices**

The contractor shall submit invoices and any necessary supporting documentation to the contract auditor at the following address:

*(*To be completed at time of award)*

Following verification, the contract auditor will forward the invoice to the designated payment office for payment in the amount determined to be owing, in accordance with the applicable payment (and fee) clauses(s) of this contract.

A DD Form 250 "Material Inspection and Receiving Report" is required.

The contractor's final invoice shall be identified as such, and shall list all other invoices (if any) previously tendered under this contract.

Pursuant to DFARS 242.803(b)(i)(c), if the cognizant Government auditor has notified the contractor of its authorization to do so, the contractor may submit vouchers under this contract direct to the payment office shown in Block 12 of SF 26 instead of to the address shown above. Such authorization does not extend to the first and final vouchers. The contractor shall continue to submit first vouchers to the cognizant auditor shown above. The final voucher shall be submitted to the Administrative Contracting Officer (SF 26, Block 6) with a copy to the cognizant auditor.

SECTION H
SPECIAL CONTRACT REQUIREMENTS

H-1 TYPE OF CONTRACT

This is a *

*(*To be completed at time of award)*

H-2 ONR 5252.237-9705 - KEY PERSONNEL (DEC 88)

(a) The Contractor agrees to assign to the contract tasks those persons whose resumes were submitted with its proposal and who are necessary to fulfill the requirements of the contract as "key personnel". No substitutions may be made except in accordance with this clause.

(b) The Contractor understands that during the first ninety (90) days of the contract performance period, no personnel substitutions will be permitted unless these substitutions are unavoidable because of the incumbent's sudden illness, death or termination of employment. In any of these events, the Contractor shall promptly notify the Contracting Officer and provide the information described in paragraph (c) below. After the initial ninety (90) day period the Contractor must submit to the Contracting Officer all proposed substitutions, in writing, at least thirty (30) days in advance (sixty (60) days if security clearance must be obtained) of any proposed substitution and provide the information required by paragraph (c) below.

(c) Any request for substitution must include a detailed explanation of the circumstances necessitating the proposed substitution, a resume for the proposed substitute, and any other information requested by the Contracting Officer. Any proposed substitute must have qualifications equal to or superior to the qualifications of the incumbent. The Contracting Officer or his/her authorized representative will evaluate such requests and promptly notify the Contractor of his/her approval or disapproval thereof.

(d) In the event that any of the identified key personnel cease to perform under the contract and the substitute is disapproved, the contract may be immediately terminated in accordance with the Termination clause of the contract.

The following are identified as key personnel: *

*(*To be completed at time of award)*

Labor Category	First/M/Last Name

H-3 ONR 5252.216-9706 - LEVEL OF EFFORT (DEC 88)

(a) The Contractor agrees to provide the total level of effort specified in the next sentence in performance of the work described in this contract. The total level of effort for performance of this contract shall be 209,000 total hours of direct labor, including subcontractor direct labor for those subcontractors specifically identified in the Contractor's proposal as having hours included in the

proposed level of effort. A breakdown of labor categories and hours is set forth in paragraph (k) below.

(b) The level of effort for this contract shall be expended at an average rate of 3483.33 hours per month. It is understood and agreed that the rate of hours per month may fluctuate in pursuit of the technical objective, provided such fluctuation does not result in the use of the total hours of effort prior to the expiration of the term of the contract.

(c) The Contractor is required to notify the Contracting Officer when any of the following situations occur, or are anticipated to occur: If during any three consecutive months the monthly average is exceeded by 25% or, if at any time it is forecast that during the last three months of the contract less than 50% of the monthly average will be used during any given month; or, when 85% of the total level of effort has been expended.

(d) If, during the term of the contract, the Contractor finds it necessary to accelerate the expenditure of direct labor to such an extent that the total hours of effort specified would be used prior to the expiration of the term, the Contractor shall notify the Contracting Officer in writing, setting forth the acceleration required, the probable benefits which would result, and an offer to undertake the acceleration at no increase in the estimated cost or fixed fee together with an offer setting forth a proposed level of effort, cost breakdown, and proposed fixed fee for continuation of the work until expiration of the term hereof. The offer shall provide that the work proposed will be subject to the terms and conditions of this contract and any additions or changes required by then current law, regulations, or directives, and that the offer, with a written notice of acceptance by the Contracting Officer, shall constitute a binding contract. The Contractor shall not accelerate any effort until receipt of such written approval by the Contracting Officer. Any agreement to accelerate will be formalized by contract modification.

(e) The Contracting Officer may, by written order, direct the Contractor to accelerate the expenditure of direct labor such that the total hours of effort specified in paragraph (a) above would be used prior to the expiration of the term. This order shall specify the acceleration required and the resulting revised term. The Contractor shall acknowledge this order within five days of receipt.

(f) If the total level of effort specified in paragraph (a) above is not provided by the Contractor during the term of this contract, the Contracting Officer shall either (i) reduce the fixed fee of this contract as follows:

$$\text{Fee Reduction} = \text{Fixed Fee} \times \frac{(\text{Required LOE Hours} - \text{Expended LOE Hours})}{\text{Required LOE Hours}}$$

or (ii) subject to the provisions of the clause of this contract entitled "Limitation of Cost," require the Contractor to continue to perform the work until the total number of hours of direct labor specified in paragraph (a) shall have been expended, at no increase in the fixed fee of this contract.

(g) In the event the government fails to fully fund the contract in a timely manner, the term of the contract may be extended accordingly with no change to cost or fee. If the government fails to fully fund the contract, the fee will be adjusted in direct proportion to that effort which was performed.

(h) Notwithstanding any of the provisions in the above paragraphs, the Contractor may furnish hours up to five percent in excess of the total hours specified in paragraph (a) above, provided that the additional effort is furnished within the term hereof, and provided further that no increase in the estimated cost or fixed fee is required, and no adjustment in the fixed fee shall be made provided that the Contractor has delivered at least 95% of the level of effort required in paragraph (a) above.

(i) It is understood that the mix of labor categories provided by the Contractor under the contract, as well as the distribution of effort among those categories, may vary considerably from the initial mix and distribution of effort which was estimated by the government or proposed by the Contractor.

(j) Nothing herein shall be construed to alter or waive any of the rights or obligations of either party pursuant to the Clause entitled "Limitation of Costs" or "Limitation of Funds," either of which clauses

as incorporated herein applies to this contract.

(k) The anticipated breakdown by labor category of the total level of effort is as follows:

(For proposal and informational purposes only: The Offeror may assume that the estimated number of hours is equally distributed to each of the base and option years.)

<u>Labor Category</u>	<u>YEAR 1</u>	<u>YEAR 2</u>	<u>YEAR 3</u>	<u>YEAR 4</u>	<u>YEAR 5</u>
Research Engineer/ Applied Physicist	2000	2000	4000	4000	4000
Program Manager/ Senior Mech. Engineer	3000	4000	5000	6000	6000
Mechanical Engineer	6000	6000	7000	8000	8000
Technician	1000	1000	2000	4000	4000
Pulse Power Technicians	2000	2000	4000	4000	4000
Cryo-Target Technicians	2000	2000	2000	2000	2000
Laser Operator/ Support Technician	4000	4000	6000	8000	8000
Machinist	4000	5000	5000	6000	6000
As-Needed Specialists	6000	7000	8000	9000	10000

H-4 ONR 5252.235-9714 - REPORT PREPARATION (FEB 02)

Scientific or technical reports prepared by the Contractor and deliverable under the terms of this contract will be prepared in accordance with format requirements contained in ANSI/NISO Z39.18-1995, Scientific and Technical Reports: Elements, Organization, and Design.

[NOTE: All NISO American National Standards are available as free, downloadable pdf(s) at <http://www.niso.org/standards/index.html> . NISO standards can also be purchased in hardcopy form from NISO Press Fulfillment, P. O. Box 451, Annapolis Junction, MD 20701-0451 USA. Telephone U.S. and Canada: (877) 736-6476; Outside the U.S. and Canada: 301-362-6904, fax: 301-206-9789.]

H-5 ELECTRONIC AND INFORMATION TECHNOLOGY (EIT)

In accordance with Section 508 of the Rehabilitation Act of 1973 (29 U.S.C. 794d), all EIT supplies and services provided under this contract must comply with the applicable accessibility standards issued by the Architectural and Transportation Barriers Compliance Board at 36 CFR Part 1194 (see FAR Subpart 39.2). Electronic and information technology (EIT) is defined at FAR 2.101.

H-6 OPTION TO EXTEND THE TERM OF THE CONTRACT

This contract shall be renewable at the unilateral option of the Government by the Contracting Officer giving written notice of renewal to the Contractor within the existing term of the contract. The Government may exercise its option to renew the contract a total of four (4) times and each such renewal shall extend the term of the contract by twelve (12) months. The Contractor agrees that performance under each such renewal shall be accomplished in accordance with all of the terms and conditions of this contract and at the estimated cost and fixed fee set forth below:

First Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Second Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Third Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

Fourth Option

Estimated Cost:	\$
Fixed Fee:	\$
Estimated Cost Plus Fixed Fee:	\$

H-7 ON-SITE USE OF GOVERNMENT PROPERTY

It is anticipated that Government property will be used by the contractor's personnel in the performance of that portion of the contract performed on-site at the U.S. Naval Research Laboratory (NRL) including any of its field sites. Such use will be on a rent free basis and all such property shall be considered to remain in the possession and control of the NRL for property responsibility and accountability purposes.

H-8 GOVERNMENT-FURNISHED PROPERTY

The following Government property will be furnished to the contractor on a rent-free basis for use in performing the contract:

(To be completed at time of award)

H-9 REPRESENTATIONS AND CERTIFICATIONS

The Contractor's completed Representations, Certifications, and Other Statements of Offerors or Respondents is incorporated herein by reference in any resultant award.

PART II - CONTRACT CLAUSES
SECTION I
CONTRACT CLAUSES

I-1 52.252-2 - CLAUSES INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

a. FEDERAL ACQUISITION REGULATION CLAUSES

<u>FAR CLAUSE</u>	<u>TITLE</u>
52.202-1	- Definitions (JUL 2004)
52.203-3	- Gratuities (APR 1984)
52.203-5	- Covenant Against Contingent Fees (APR 1984)
52.203-6	- Restrictions On Subcontractor Sales To The Government (JUL 1995)
52.203-7	- Anti-Kickback Procedures (JUL 1995)
52.203-8	- Cancellation, Rescission, And Recovery Of Funds For Illegal Or Improper Activity (JAN 1997)
52.203-10	- Price Or Fee Adjustment For Illegal Or Improper Activity (JAN 1997)
52.203-12	- Limitation On Payments To Influence Certain Federal Transactions (JUN 2003)
52.204-2	- Security Requirements (AUG 1996)
52.204-4	- Printed Or Copied Double-Sided On Recycled Paper (AUG 2000)
52.209-6	- Protecting The Government's Interest When Subcontracting With Contractors Debarred, Suspended, Or Proposed For Debarment (JUL 1995)
52.211-15	- Defense Priority And Allocation Requirements (SEP 1990)
52.215-2	- Audit And Records-Negotiation (JUN 1999)
52.215-2	- Audit And Records-Negotiation (JUN 1999) - Alternate II (APR 1998)
52.215-8	- Order Of Precedence - Uniform Contract Format (OCT 1997)
52.215-14	- Integrity Of Unit Prices (OCT 1997)
52.215-15	- Pension Adjustments And Asset Reversions (JAN 2004)
52.215-17	- Waiver Of Facilities Capital Cost Of Money (OCT 1997) (<i>will be included if the successful offeror does not propose facilities capital cost of money</i>)
52.215-18	- Reversion Or Adjustment Of Plans For Post-Retirement Benefits (PRB) Other Than Pensions (OCT 1997)
52.215-19	- Notification Of Ownership Changes (OCT 1997)
52.215-21	- Requirements For Cost And Pricing Data Or Information Other Than Cost Or Pricing Data - Modifications (OCT 1997) - Alternate IV (OCT 1997)
52.216-7	- Allowable Cost And Payment (DEC 2002) (fill in <u>30th</u>)
52.216-8	- Fixed-Fee (MAR 1997)

- 52.219-4 - Notice Of Price Evaluation Preference For HUBZone Small Business Concerns (JAN 1999) ☐ Offeror elects to waive the evaluation preference.
- 52.219-6 - Notice Of Total Small-Business Set-Aside (JUN 2003)
- 52.219-8 - Utilization Of Small Business Concerns (MAY 2004)
- 52.219-14 - Limitations On Subcontracting (DEC 1996)
- 52.222-2 - Payment For Overtime Premiums (JUL 1990) -The Use Of Overtime Is Authorized Under This Contract If The Overtime Premium Does Not Exceed "0"
- 52.222-3 - Convict Labor (JUN 2003)
- 52.222-4 - Contract Work Hours And Safety Standards Act-Overtime Compensation (SEP 2000)
- 52.222-19 - Child Labor – Cooperation With Authorities And Remedies (JUN 2004)
- 52.222-20 - Walsh-Healey Public Contracts Act (DEC 1996)
- 52.222-21 - Prohibition Of Segregated Facilities (FEB 1999)
- 52.222-26 - Equal Opportunity (APR 2002)
- 52.222-35 - Equal Opportunity For Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.222-36 - Affirmative Action For Workers With Disabilities (JUN 1998)
- 52.222-37 - Employment Reports On Special Disabled Veterans, Veterans Of The Vietnam Era, And Other Eligible Veterans (DEC 2001)
- 52.223-3 - Hazardous Material Identification And Material Safety Data (JAN 1997)
- 52.223-5 - Pollution Prevention And Right-To-Know Information (AUG 2003)
- 52.223-6 - Drug-Free Workplace (MAY 2001)
- 52.223-14 - Toxic Chemical Release Reporting (AUG 2003)
- 52.225-13 - Restrictions On Certain Foreign Purchases (JAN 2004)
- 52.227-1 - Authorization And Consent (JUL 1995)- Alternate I (APR 1984)
- 52.227-2 - Notice And Assistance Regarding Patent And Copyright Infringement (AUG 1996)
- 52.227-10 - Filing Of Patent Application- Classified Subject Matter (APR 1984)
- 52.227-11 - Patent Rights - Retention By The Contractor (Short Form) (JUN 1997)
(will be included if the successful offeror is a small business or a non-profit organization)
- 52.228-7 - Insurance - Liability To Third Persons (MAR 1996)
- 52.232-9 - Limitation On Withholding Of Payments (APR 1984)
- 52.232-17 - Interest (JUN 1996)
- 52.232-18 - Availability Of Funds (APR 1984)
- 52.232-20 - Limitation Of Cost (APR 1984) (Applicable when the contract or task order is fully funded)
- 52.232-22 - Limitation Of Funds (APR 1984) (Applicable when the contract or task order is not fully funded)
- 52.232-23 - Assignment Of Claims (JAN 1986) Alternate I (APR 1984)
- 52.232-25 - Prompt Payment (OCT 2003)
- 52.232-33 - Payment By Electronic Funds Transfer-Central Contractor Registration (OCT 2003)
- 52.233-1 - Disputes (JUL 2002) - Alternate I (DEC 1991)
- 52.233-3 - Protest After Award (AUG 1996) - Alternate I (JUN 1985)
- 52.237-2 - Protection Of Government Buildings, Equipment And Vegetation (APR 1984)
- 52.237-3 - Continuity Of Services (JAN 1991)
- 52.242-1 - Notice Of Intent To Disallow Costs (APR 1984)
- 52.242-3 - Penalties For Unallowable Costs (MAY 2001)
- 52.242-4 - Certification of Final Indirect Costs (JAN 1997)

- 52.242-13 - Bankruptcy (JUL 1995)
- 52.243-2 - Changes - Cost-Reimbursement (AUG 1987) - Alternate V (APR 1984)
- 52.243-6 - Change Order Accounting (APR 1984)
- 52.243-7 - Notification Of Changes (APR 1984) fill in 30
- 52.244-2 - Subcontracts (AUG 1998) - Alternate I (AUG 1998)
- 52.244-5 - Competition In Subcontracting (DEC 1996)
- 52.244-6 - Subcontracts For Commercial Items And Commercial Components (JUL 2004)
- 52.245-5 - Government Property (Cost-Reimbursement, Time-And-Material, Or Labor-Hour Contracts) (JUN 2003) (DEVIATION)
- 52.245-18 - Special Test Equipment (FEB 1993)
- 52.245-19 - Government Property Furnished "As-Is" (APR 1984)
- 52.246-23 - Limitation Of Liability (FEB 1997)
- 52.246-25 - Limitation Of Liability - Services (FEB 1997)
- 52.247-1 - Commercial Bill Of Lading Notations (APR 1984)
- 52.247-63 - Preference For U. S. Flag Carriers (JUN 2003)
- 52.249-6 - Termination (Cost-Reimbursement) (SEP 1996)
- 52.249-14 - Excusable Delays (APR 1984)
- 52.251-1 - Government Supply Sources (APR 1984)
- 52.252-6 - Authorized Deviations in Clauses (APR 1984)(fill in Defense Federal Acquisition Regulation Supplement (48 CFR Chapter 2))
- 52.253-1 - Computer Generated Forms (JAN 1991)

b. DEPARTMENT OF DEFENSE FEDERAL ACQUISITION REGULATION CLAUSES

DFARS CLAUSE TITLE

- 252.201-7000 - Contracting Officer's Representative (DEC 1991)
- 252.203-7001 - Prohibition On Persons Convicted Of Fraud Or Other Defense Contract Related Felonies (MAR 1999)
- 252.203-7002 - Display Of DoD Hotline Poster (DEC 1991)
- 252.204-7000 - Disclosure Of Information (DEC 1991)
- 252.204-7003 - Control Of Government Personnel Work Product (APR 1992)
- 252.204-7004 - Alternate A (NOV 2003)
- 252.204-7005 - Oral Attestation Of Security Responsibilities (NOV 2001)
- 252.205-7000 - Provision Of Information To Cooperative Agreement Holders (DEC 1991)
- 252.209-7000 - Acquisition From Subcontractors Subject To On-Site Inspection Under The Intermediate-Range Nuclear Forces (INF) Treaty (NOV 1995)
- 252.209-7004 - Subcontracting With Firms That Are Owned Or Controlled By The Government Of A Terrorist Country (MAR 1998)
- 252.223-7004 - Drug-Free Work Force (SEP 1988)
- 252.223-7006 - Prohibition On Storage And Disposal Of Toxic And Hazardous Materials (APR 1993)
- 252.225-7001 - Buy American Act And Balance Of Payments Program (APR 2003)
- 252.225-7002 - Qualifying Country Sources As Subcontractors (APR 2003)
- 252.225-7012 - Preference For Certain Domestic Commodities (JUN 2004)
- 252.225-7016 - Restriction On Acquisition Of Ball And Roller Bearings (MAY 2004)
- 252.225-7021 - Trade Agreements (JUN 2004)
- 252.225-7025 - Restriction On Acquisition Of Forgings (APR 2003)
- 252.225-7031 - Secondary Arab Boycott Of Israel (APR 2003)

- 252.225-7043 - Antiterrorism/Force Protection Policy For Defense Contractors Outside The United States (JUN 1998) (fill in : Naval Criminal Investigative Service (NCIS), Code 24, telephone, DSN 228-9113 or commercial (202)433-9113)
- 252.226-7001 - Utilization of Indian Organizations and Indian-Owned Economic Enterprises, And Native Hawaiian Small Business Concerns (OCT 2003)
- 252.227-7000 - Non Estoppel (OCT 1966)
- 252.227-7001 - Release Of Past Infringement (AUG 1984)
- 252.227-7013 - Rights In Technical Data -- Noncommercial Items (NOV 1995)
- 252.227-7014 - Rights In Noncommercial Computer Software And Noncommercial Computer Software Documentation (JUN 1995)
- 252.227-7016 - Rights In Bid Or Proposal Information (JUN 1995)
- 252.227-7019 - Validation Of Asserted Restrictions--Computer Software (JUN 1995)
- 252.227-7025 - Limitations On The Use Or Disclosure Of Government-Furnished Information Marked With Restrictive Legends (JUN 1995)
- 252.227-7026 - Deferred Delivery Of Technical Data Or Computer Software (APR 1988)
- 252.227-7027 - Deferred Ordering Of Technical Data Or Computer Software (APR 1988)
- 252.227-7030 - Technical Data--Withholding Of Payment (MAR 2000)
- 252.227-7034 - Patents--Subcontracts (APR 1984)
- 252.227-7037 - Validation Of Restrictive Markings On Technical Data (SEP 1999)
- 252.227-7039 - Patents--Reporting Of Subject Inventions (APR 1990)
- 252.231-7000 - Supplemental Cost Principles (DEC 1991)
- 252.232-7003 - Electronic Submission Of Payment Requests (JAN 2004)
- 252.235-7010 - Acknowledgment Of Support And Disclaimer (MAY 1995)
- 252.235-7011 - Final Scientific Or Technical Report (SEP 1999)
- 252.242-7000 - Post Award Conference (DEC 1991)
- 252.242-7004 - Material Management And Accounting System (DEC 2000)
- 252.243-7002 - Requests For Equitable Adjustment (MAR 1998)
- 252.244-7000 - Subcontracts For Commercial Items And Commercial Components (DOD Contracts) (MAR 2000)
- 252.245-7001 - Reports Of Government Property (MAY 1994)
- 252.246-7001 - Warranty Of Data (DEC 1991)
- 252.247-7023 - Transportation Of Supplies By Sea (MAY 2002)
- 252.247-7024 - Notification Of Transportation Of Supplies By Sea (MAR 2000)
(will be included if the successful offeror made a negative response to the inquiry at DFARS 252.247-7022)
- 252.251-7000 - Ordering From Government Supply Sources (OCT 2002)

I-2 FAR 52.223-11 - OZONE-DEPLETING SUBSTANCES (MAY 2001)

(a) *Definitions.* "Ozone-depleting substance", as used in this clause, means any substance the Environmental Protection Agency designates in 40 CFR Part 82 as –

(1) Class I, including, but not limited to, chlorofluorocarbons, halons, carbon tetrachloride, and methyl chloroform; or

(2) Class II, including, but not limited to, hydrochlorofluorocarbons.

(b) The Contractor shall label products which contain or are manufactured with ozone-depleting substances in the manner and to the extent required by 42 U.S.C. 7671j (b), (c), and (d) and 40 CFR Part 82, Subpart E, as follows:

WARNING

Contains (or manufactured with, if applicable) *_____, a substance(s)
which harm(s) public health and environment by destroying ozone in the upper atmosphere.

*The Contractor shall insert the name of the substance(s).

PART III - LIST OF DOCUMENTS, EXHIBITS, AND OTHER ATTACHMENTS
SECTION J
LIST OF ATTACHMENTS

J-1	Attachment (1) - Statement Of Work:	Pages 7
J-2	Exhibit A - DD Form 1423, Contract Data Requirements:	Pages 4
J-3	Attachment (2) - Workforce Qualifications and Experience	Pages 4
J-4	Attachment 3 – Accounting and Appropriation Data	Pages 1

**PART IV - REPRESENTATIONS AND INSTRUCTIONS
SECTION - K
REPRESENTATIONS, CERTIFICATIONS
AND OTHER STATEMENTS OF OFFERORS OR RESPONDENTS**

K-1 Representations, Certifications, and Other Statements of Offerors or Respondents

Each Offeror must submit a completed Representations, Certifications, and Other Statements Of Offerors or Respondents with its proposal which is available electronically in full text at <http://heron.nrl.navy.mil/contracts/rep&certs.htm>

Use Representations and Certifications: A

K-2 FILL IN FOR FAR 52.219-1 - SMALL BUSINESS PROGRAM REPRESENTATIONS (MAR 2001)

The fill in information is as follows:

The NAICS code for this acquisition is: 541710

The small business size standard is. 500 people.

SECTION L
INSTRUCTIONS CONDITIONS AND NOTICES
TO OFFERORS OR RESPONDENTS

L-1 FAR 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This solicitation incorporates one or more solicitation provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer. Also, the full text of a solicitation provision may be accessed electronically at this/these address(es):

<http://www.arnet.gov/far>

<http://heron.nrl.navy.mil/contracts/home.htm>

FAR CLAUSE TITLE

52.204-6	-	Data Universal Numbering System (DUNS) Number (OCT 2003)
52.204-7	-	Central Contractor Registration (OCT 2003)
52.214-34	-	Submission Of Offers In The English Language (APR 1991)
52.214-35	-	Submission Of Offers In U.S. Currency (APR 1991)
52.215-1	-	Instructions To Offerors- Competitive Acquisition (JAN 2004)
52.215-16	-	Facilities Capital Cost Of Money (JUN 2003)
52.222-24	-	Preaward On-Site Equal Opportunity Compliance Evaluation (FEB 1999)
52.237-1	-	Site Visit (APR 1984)
52.237-10	-	Identification Of Uncompensated Overtime (OCT 1997)

DFAR CLAUSE TITLE

252.209-7001-	Disclosure Of Ownership Or Control By The Government Of A Terrorist Country (MAR 1998)
252.211-7005 -	Substitutions For Military Or Federal Specifications And Standards (FEB 2003)

L-2 INSTRUCTIONS FOR SUBMISSION OF PROPOSALS/OFFERS

All proposals shall be submitted in accordance with FAR 52.215-1- *Instructions to Offerors- Competitive Acquisition*. Proposals/offers submitted in paper media through the United States Postal Service (USPS) or delivery services shall be addressed to:

Contracting Officer, ATTN: Code 3235
Naval Research Laboratory – SSC (NRL-SSC)
Building 1007, Room 45
Stennis Space Center, MS 39529-5004

Solicitation/RFP No.: N00173-04-R-RS08

Closing Date: 12 OCT 2004

Time 3:30 Local Time

Proposals may be hand delivered to the Contracting Office, NRL-SSC, Building 1007, Room 45, Stennis Space Center, MS 39529-5004 between the hours of 8AM until 4PM, local time, excluding weekends and federal holidays. NRL-SSC is a controlled-access facility. Photo identification will be required. Report first to Visitor Control at the South Gate for access to NRL. After receiving a Visitor Pass, proceed directly to Building 1007 and contact extension 8-4571 or 8-5784 for access to the building. All offerors shall allow sufficient time for delivery of their proposal to the Contracting Office

L-3 FAR 52.211-14 - NOTICE OF PRIORITY RATING FOR NATIONAL DEFENSE USE (SEP 1990)

Any contract awarded as a result of this solicitation will be a ☐ DX rated order; ☒ DO rated order certified for national use under the Defense Priorities and Allocations system (DPAS) (15 CFR 700), and the Contractor will be required to follow all of the requirements of this regulation.

L-4 FAR 52.215-20 REQUIREMENTS FOR COST OR PRICING DATA OR INFORMATION OTHER THAN COST OR PRICING DATA (OCT 1997)ALTERNATE IV (OCT 1997)

- (a) Submission of cost or pricing data is not required.
- (b) Provide information described below . The Offeror shall provide information as required in Section L.14.

L-5 FAR 52.216-1 - TYPE OF CONTRACT (APR 1984)

The Government contemplates award of a Cost Plus Fixed Fee Term Contract resulting from this solicitation.

L-6 FAR 52.222-18 – CERTIFICATION REGARDING KNOWLEDGE OF CHILD LABOR FOR LISTED END PRODUCTS (FEB 2001)

The fill-in information is as follows:

Listed End Product	Listed Countries of Origin

L-7 FAR 52.233-2 - SERVICE OF PROTEST (AUG 1996)

(a) Protests, as defined in Section 33.101 of the Federal Acquisition Regulation, that are filed directly with an agency, and copies of any protests that are filed with the General Accounting Office (GAO) shall be served on the Contracting Officer (addressed as follows) by obtaining written and dated acknowledgment of receipt from the Control Desk, Code 3200, Bldg. 222, Rm. 115, Naval Research Laboratory, 4555 Overlook Ave., S.W., Washington DC 20375-5326.

- (b) The copy of any protest shall be received in the office designated above within one day of filing a protest with the GAO.

L-8 DFARS 252.227-7017 - IDENTIFICATION AND ASSERTION OF USE, RELEASE, OR DISCLOSURE RESTRICTIONS (JUN 1995)

- (a) The terms used in this provision are defined in following clause or clauses contained in this solicitation—
- (1) If a successful offeror will be required to deliver technical data, the Rights in Technical Data--Noncommercial Items clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
 - (2) If a successful offeror will not be required to deliver technical data, the Rights in Noncommercial Computer Software and Noncommercial Computer Software Documentation clause, or, if this solicitation contemplates a contract under the Small Business Innovative Research Program, the Rights in Noncommercial Technical Data and Computer Software--Small Business Innovative Research (SBIR) Program clause.
- (b) The identification and assertion requirements in this provision apply only to technical data, including computer software documents, or computer software to be delivered with other than unlimited rights. For contracts to be awarded under the Small Business Innovative Research Program, the notification requirements do not apply to technical data or computer software that will be generated under the resulting contract. Notification and identification is not required for restrictions based solely on copyright.
- (c) Offers submitted in response to this solicitation shall identify, to the extent known at the time an offer is submitted to the Government, the technical data or computer software that the Offeror, its subcontractors or suppliers, or potential subcontractors or suppliers, assert should be furnished to the Government with restrictions on use, release, or disclosure.
- (d) The Offeror's assertions, including the assertions of its subcontractors or suppliers or potential subcontractors or suppliers shall be submitted as an attachment to its offer in the following format, dated and signed by an official authorized to contractually obligate the Offeror:

Identification and Assertion of Restrictions on the Government's Use, Release, or Disclosure of Technical Data or Computer Software.

The Offeror asserts for itself, or the persons identified below, that the Government's rights to use, release, or disclose the following technical data or computer software should be restricted:

Technical Data Computer Software to be Furnished With Restrictions*	Basis for Assertion **	Asserted Rights Category ***	Name of Person Asserting Restrictions****
(List)*****	(List)	(List)	(List)

* For technical data (other than computer software documentation) pertaining to items, components, or processes developed at private expense, identify both the deliverable technical data and each such items, component, or process. For computer software or computer software documentation identify the software or documentation.

** Generally, development at private expense, either exclusively or partially, is the only basis for asserting restrictions. For technical data, other than computer software documentation,

development refers to development of the item, component, or process to which the data pertain. The Government's rights in computer software documentation generally may not be restricted. For computer software, development refers to the software. Indicate whether development was accomplished exclusively or partially at private expense. If development was not accomplished at private expense, or for computer software documentation, enter the specific basis for asserting restrictions.

*** Enter asserted rights category (e.g., government purpose license rights from a prior contract, rights in SBIR data generated under another contract, limited, restricted, or government purpose rights under this or a prior contract, or specially negotiated licenses).

**** Corporation, individual, or other person, as appropriate.

***** Enter "none" when all data or software will be submitted without restrictions.

Date _____

Printed Name and Title _____

Signature _____

(End of identification and assertion)

- (e) An offeror's failure to submit, complete, or sign the notification and identification required by paragraph (d) of this provision with its offer may render the offer ineligible for award.
- (f) If the Offeror is awarded a contract, the assertions identified in paragraph (d) of this provision shall be listed in an attachment to that contract. Upon request by the Contracting Officer, the Offeror shall provide sufficient information to enable the Contracting Officer to evaluate any listed assertion.

L-9 DFARS 252.227-7028 - TECHNICAL DATA OR COMPUTER SOFTWARE PREVIOUSLY DELIVERED TO THE GOVERNMENT (JUN 1995)

The Offeror shall attach to its offer an identification of all documents or other media incorporating technical data or computer software it intends to deliver under this contract with other than unlimited rights that are identical or substantially similar to documents or other media that the Offeror has produced for, delivered to, or is obligated to deliver to the Government under any contract or subcontract. The attachment shall identify - -

- (a) The contract number under which the data or software were produced;
- (b) The contract number under which, and the name and address of the organization to whom, the data or software were most recently delivered or will be delivered; and
- (c) Any limitations on the Government's rights to use or disclose the data or software, including, when applicable, identification of the earliest date the limitations expire.

L-10 GOVERNMENT-FURNISHED PROPERTY

No material, labor, or facilities will be furnished by the Government unless provided for in the solicitation.

L-11 INQUIRIES CONCERNING THE RFP

Any questions concerning the RFP must be submitted in writing to the Contracting Officer at the location noted in blocks 7 and 9 of the Standard Form 33, "Solicitation, Offer and Award," no less

than fifteen (15) days before closing. The Government will not consider questions received after this date. Offerors are cautioned against directing any questions concerning this RFP to technical personnel at the Naval Research Laboratory.

L-12 PROPOSAL ORGANIZATION

(1) Information for the technical/management proposal shall be placed in Volume I and be completely separate from the business proposal (Volume II).

(2) Proposal Format and Length - No attempt is made to restrict the proposal format and style. However, the proposal should be written and organized so as to be compatible with the RFP, the Statement of Work, company's organization and accounting structure, and proposed cost estimate. Offerors are encouraged to use recycled paper and maximize the use of double sided copying when preparing responses to solicitations.

L-13 VOLUME I - TECHNICAL/MANAGEMENT PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND FOUR (4) COPIES .

L.13.: GENERAL PROPOSAL CONTENT:

Offerors shall furnish an original and FOUR (4) copies of a TECHNICAL PROPOSAL with sufficient detail to show compliance with the requirements stated in each subparagraph of Section C of this solicitation. Specific cost or pricing details shall be omitted from the Technical Proposal.

The technical proposal shall include any drawings, including schematic drawings, which will enable independent technical evaluation of the proposal.

The technical proposal shall clearly and concisely identify and discuss the Offeror's technical and managerial qualifications and approaches to accomplishing the requirements outlined in Section C.

The technical proposal shall be subdivided into a "Proposal Summary" section, a "Workforce Qualifications and Experience" section, a "Technical Approach" section, a "Corporate Resources and Organizational Capabilities" section, and a "Corporate Past Performance Information" section in that order.

The technical proposal shall also contain responses to each of the individual requirements listed in Attachment 1, Attachment 2, and Attachment 3. Each response shall furnish the Government with sufficient detail to enable the technical evaluation panel to independently evaluate each response against the respective Government requirement as stated in Section C and Section M.

L.13.A PROPOSAL SUMMARY

The proposal summary is an unevaluated requirement. The Offeror shall provide a concise summary, exclusive of cost information, of its proposal. This summary should be complete, stand on its own, and provide executive level reviewers with an understanding of the content of the proposal. The summary should summarize the highlights, plans and qualifications contained in the body of the technical proposal.

L.13.B WORK FORCE QUALIFICATION AND EXPERIENCE

The Offeror shall document the experience, education, and other qualifications of all personnel proposed to accomplish the technical requirements stated in Section C of this solicitation. As a minimum, the Offeror shall provide the following information for each proposed individual: (a) name of proposed individual; (b) proposed labor category, as designated in Attachment 2; (c) proposed Task areas of involvement, as identified in Attachment 1; (d) educational qualifications; (e) technical or managerial qualifications and experience as they relate to the Statement of Work and the requirements in Attachment 2; (f) length of experience; and (g) previous work history. Key Personnel shall be identified as such.

In addition to the requirements stated above, the Offeror shall (a) describe their plan to retain key personnel throughout the term of any resulting contract, (b) demonstrate their ability to attract additional trained personnel, and (c) describe their strategy for and ability to respond to surges in effort.

L.13.C TECHNICAL AND MANAGERIAL APPROACH

The Offeror shall discuss in detail its proposed technical approach for performance of the tasks required in Section C and Attachment 1 of this solicitation. This discussion shall be in sufficient detail to (a) demonstrate the Offeror's compliance with the specified requirements of this solicitation; (b) demonstrate the Offeror's technical competence and understanding of the purpose, objectives and scope of the required work; (c) demonstrate the Offeror's understanding of the specific technical issues addressed in the requirements; (d) present the Offeror's proposed procedures and solutions proposed to address the technical requirements of this solicitation; and (e) discuss all other pertinent technical issues.

The Offeror shall also provide a managerial plan to demonstrate its capability to efficiently, effectively and economically plan, organize, manage, coordinate and control the work effort required under this solicitation. The Offeror's managerial plan shall address its approach for tracking milestones, costs, subcontractor efforts (if applicable) and deliverables. The Offeror's managerial plan shall also address its proposed internal procedures for assuring timely responses to the Government's research needs on any resulting contract.

L.13.D CORPORATE RESOURCES AND ORGANIZATIONAL CAPABILITIES

The Offeror shall describe and document those resources which the firm will make available to this project, including, but not limited to, (a) financial resources, (b) research, development and production facilities and equipment, and (c) any other technical resources offered to meet the Government's requirements as stated in Section C of this solicitation.

The Offeror shall document the firm's experience on similar or related projects through narrative descriptions of these experiences. Prior and current program experience should be identified in these narratives by citing contract numbers, contracting agencies or firms, the COR's name and telephone number, the applicable period of performance, and a summary of the nature of the work. The

narratives should show the clear relationship of previous work to the requirements of this project.

The Offeror shall demonstrate its capacity to routinely and rapidly respond to the requirements stated in Attachment 1 to this solicitation by providing specific examples drawn from the previous five years of operations.

L.13.E CORPORATE PAST PERFORMANCE INFORMATION

(i) Offerors shall submit the following information as part of their proposal. (Offerors are encouraged to submit the information prior to other parts of the proposal to assist the Government in reducing the length of the evaluation period.) List the last five contracts or subcontracts completed during the past three years for supplies or services similar in nature to this requirement. Include in the five any current contract or subcontracts for similar supplies/services that were awarded at least one year prior to the date of this solicitation. Offerors that have no similar previous or current contracts should provide the requested information for proposed subcontractors that will perform major or critical aspects of the requirement of for the proposed project manager or key personnel responsible for major or critical aspects of the requirement.

1. Name of contracting organization
2. Contract number
3. Contract type
4. Total Contract Value
5. Description of the contract work
6. Contracting Officer and telephone number
7. Contracting officer's representative, program manager, or similar Official and telephone number

(ii) Offerors shall contact the contracting organizations identified pursuant to paragraph (a) as soon as possible and request them to send past performance information on the identified contracts to the address in Block 7 of the face page of this solicitation. The past performance report, which is available at <http://heron.nrl.navy.mil/contracts/home.htm> is to be provided to the contracting organization for this purpose. If the contracting organization has already collected past performance information on the contract pursuant to FAR Subpart 42.15, the format used to collect the information may be used instead of the past performance report.

(iii) Offerors may include in their proposals specific information relating to problems encountered in performing the identified contracts and any corrective actions by the offeror. Offerors should not provide general information on their performance on the identified contracts as this will be obtained from the contracting organizations

L-14 VOLUME II - BUSINESS PROPOSAL

REQUIRED COPIES: 1 ORIGINAL AND 3 COPIES

The Offeror shall submit a Cost/Pricing Proposal, which shall include such explanatory data as is necessary to establish that proposed costs are reasonable, allocable, appropriate and allowable

pursuant to both Part 31 of the Federal Acquisition Regulation (FAR) and Part 231 of the Defense Federal Acquisition Regulation Supplement (DFARS). More specifically, the Cost/Pricing proposals shall provide the following information:

- (a)
 - (i) Labor to include categories of labor, individuals proposed within each category; hours proposed for each individual, and hourly rate for each individual;
 - (ii) Indirect or Overhead Rate(s);
 - (iii) Any Direct Materials proposed;
 - (iv) Any Other Direct Costs proposed;
 - (v) General and Administrative Rate(s);
 - (vi) Facilities Capital Cost of Money Rate(s);
 - (vii) Any other applicable rates;
 - (viii) Other supporting costs;
 - (ix) Fee
- (b) Any information reasonably required to explain the Offeror's estimating process, including mathematical algorithms and judgmental factors used in formulating the estimate; and any contingency assumptions employed in arriving at the proposed price
- (c) Consultants/Subcontractors: Offerors shall describe subcontracting arrangements proposed for completing the work required herein. Sub-Contractors shall be identified as well as the portion of the work to be subcontracted. Documents establishing a subcontracting relationship shall be submitted with the cost proposal. Offerors may arrange for proposed subcontractors to submit supporting cost data directly to the Government. Any such submission shall not be deemed to establish privity of contract between the Government and the proposed sub-contractor. With respect to Independent Contractors or Consultants, the Offeror shall document direct labor rates proposed by providing the Government with copies of either letters of intent or Consultant or Independent Contractor Agreements executed between the Offeror and the Independent Contractor. Offerors who intend to include subcontracted effort as part of their proposal are responsible for ensuring that complete information as described above is provided from each subcontractor as part of their response to this solicitation.
- (d) Material and Travel: FOR PROPOSAL PURPOSES ONLY, Offerors shall use the following estimates (with applicable indirect costs added to the estimate) for required material and travel costs. If subcontractors propose material or travel costs, these must also be burdened and that burden added to the estimates.
 - (i) The "Material" estimate of \$1,400,000.00 for the base year, \$1,800,000.00 for Option Year 1, \$2,000,000.00 for Option Year 2, and \$2,200,000.00 each for Option Years 3 and 4 includes those directly associated items which are expected to be incorporated into end products or expended during performance and minor direct equipment expense.
 - (ii) The "Travel" estimate of \$50,000.00 for the base year, \$60,000.00 for Option Year 1, \$70,000.00 for Option Year 2, \$75,000.00 for Option Year 3, and \$80,000.00 for Option Year 4 includes travel and subsistence for work at alternative sites, and for allowable local travel per the Joint Travel Regulations.

**SECTION M
EVALUATION FACTORS FOR AWARD**

EVALUATION FACTORS FOR AWARD

M-1 EVALUATION

Award will be made to that responsible offeror whose proposal is determined to be the best value to the Government, proposed cost and other factors considered. The Government reserves the right to make award to other than the low offeror. Although technical considerations are more important than cost, the closer the technical scores of the various proposals are to one another, the more important cost considerations become.

M-2 EVALUATION FACTORS FOR AWARD

Proposals received in response to this solicitation will be evaluated in accordance with the criteria stated in Sections L.13.B, L.13.C, L.13.D, and L.13.E, which together compromise the Technical Category; and Section L.14, which comprise the Cost/Pricing category.

M-2-1 – TECHNICAL CATEGORY

The technical evaluation will consider the Offeror's overall approach to, understanding of, and capability to adequately perform and provide the requirements listed in the Statement of Work, as reflected in the Offeror's responses to the evaluation criteria listed in Sections L.13.B, L.13.C, L.13.D, and L.13.E. Technical scores will be based on evaluative determinations of whether the Offeror's proposal meets, does not meet, or, as proposed, is more advantageous than the Government's minimum requirements. Pursuant to FAR 15.306(c), proposals which are found to contain unrealistic technical or schedule terms, which fail to comply with the requirements stated in this RFP, or which are found to be unrealistically high or low in cost/price, may be significantly downgraded or removed from further consideration. Areas within the Offeror's technical proposal that are found to offer unique or innovative technical solutions, or effort beyond the Government's anticipations as stated in Attachment 1, may receive maximum technical scores.

Evaluated Components within the Technical area include "Workforce Qualifications and Experience", "Technical and Managerial Approach", "Corporate Resources and Organizational Capabilities" and "Corporate Past Performance Information". Within the Technical category, the component "Workforce Qualifications and Experience" is weighted significantly higher than the components "Technical and Managerial Approach", which carries a greater weight than "Corporate Resources and Organizational Capabilities", and "Corporate Past Performance Information", both of which are weighted equally

Past Performance – Past performance will be evaluated on the basis of quality of work performed, timeliness of performance, cost control, and business relations. The evaluation will be based on the information provided pursuant to Contract Section L.13.F and other sources, if available. Offerors that have no relevant performance history or for which past performance information is not available

will not be evaluated favorably or unfavorably on past performance. The Government may begin proposal evaluation prior to receipt of past performance information. If, after completion of proposal evaluation except evaluation of past performance, the contracting officer determines that evaluation of past performance will not affect the outcome of competitive selection, the contracting officer may waive its evaluation in accordance with FAR 15.304(c)(3)(iii).

M-2-2 COST TO THE GOVERNMENT

Proposed estimated cost to the Government. The Government may adjust the proposed cost for purposes of evaluation based upon the findings of a cost realism analysis. Cost Realism means that the costs in an offeror's proposal represent the most-probable cost; are realistic for the work to be performed; reflect a clear understanding of the requirements; and are consistent with the various elements of the offeror's technical proposal. The cost realism evaluation includes (a) an analysis of the adequacy of the hours, labor mix, and other direct costs to perform the work as proposed in the technical proposal as well as the proposed labor and indirect rates; (b) an analysis of costs proposed for travel, materials, consultants and subcontractors, facility capital cost of money, and fee; and (c) an evaluation of the likelihood that the risks inherent in the offeror's technical approach will result in higher actual costs than anticipated.

M-3 FAR 52.217-5 - EVALUATION OF OPTIONS (JUL 1990)

Except when it is determined in accordance with FAR 17.206(b) not to be in the Government's best interests, the Government will evaluate offers for award purposes by adding the total price for all options to the total price for the basic requirement. Evaluation of options will not obligate the Government to exercise the option(s).

RFP NUMBER: N00173-04-R-RS08

STATEMENT OF WORK
FOR
ENGINEERING DESIGN, FABRICATION, TESTING, REPAIR,
AND MAINTENANCE SUPPORT FOR
LASER-PLASMA INTERACTION RESEARCH

1.0 INTRODUCTION

This contract provides the personnel and facilities necessary to support the Laser Fusion Program at the Naval Research Laboratory. This program supports a National effort to achieve inertial fusion ignition with lasers, and is leading the effort to harness this for energy application. The program leads the world in the development of high energy Krypton Fluoride (KrF) lasers for fusion research and the potential energy application. KrF has the shortest wavelength and most uniform target illumination capability of all high-energy lasers. Both are very desirable features for high-gain direct-drive laser fusion. The program's NIKE KrF laser facility, completed in 1995, is the world's highest energy KrF laser, and it is used for research in laser target interactions. The adjacent Electra facility is developing and demonstrating the KrF technologies needed for a laser-fusion power plant. The program builds and utilizes large-scale closely coupled computer clusters that support the research effort. The program also manages a large complementary S&T effort in laser fusion energy by other laboratories, universities and industry.

The NIKE laser facility consists of a 56 beam high-power 3-kJ KrF laser and a laser-target interaction installation. The laser consists of an oscillator, several stages of amplification by discharge-pumped amplifiers, followed by 20 cm. aperture and 60 cm. aperture Electron-beam pumped amplifiers. The energy from the Electron-beam pumped amplifiers is extracted using angular multiplexing where numerous short duration laser beams are incident on each amplifier one after the other. The system utilizes approximately 300 mounted mirrors and lenses. The optics range up to 80 cm. in diameter. The optics and amplifiers cover approximately 10,000 square feet of floor space. The energy from the 56 output beams from the laser is focused and overlapped onto small plastic or cryogenic targets contained in a vacuum chamber. Experiments are conducted on the laser-target interaction for ICF research using this facility.

The Electra laser facility is developing the science and technologies required to develop an efficient, cost effective, and durable rep rate Krypton Fluoride (KrF) laser. The goals for the laser are an overall efficiency of 6-7%, a cost of \$10.00 per electron beam joule, and a durability of 2×10^8 shots between maintenance. One application for such a system is a driver for Inertial Electron Beams. It has produced (in an oscillator mode) > 650 J per pulse in 1 HZ and 5 HZ operation, and has a projected efficiency of > 7.4% based on recent advances. The program has developed a solid-state switch which will become the basis for an efficient, durable pulsed power system that should cost approximately \$8.00 per electron beam Joule. The major remaining tasks are to develop technologies that meet the durability requirements (primarily the development of long-lived durable hibachi foils) and to configure Electra as an oscillator/amplifier system with appropriate beam smoothing. The laser

components needing development are: a durable, efficient pulsed power system; a durable electron beam emitter; a long life pressure foil support structure ("hibachi"); a recirculator to quiet the laser gas between shots; and long-life optical windows. Electra will be built by integrating each component as it is developed. Concurrently, the physics of KrF lasers will be studied to improve the laser performance and efficiency.

The optical and laser physics design effort, and research with the NIKE and Electra facilities are performed by scientists and research engineers at NRL and other collaborating laboratories. Contractor support is required in three areas: 1) electro-mechanical efforts, including the design, fabrication, installation, maintenance and trouble-shooting of hardware required to complete and maintain the NRL facilities and conduct research; 2) KrF laser research, including electron beam physics, pulsed power, and optical and electron beam materials; and 3) laser IFE research and development, including target fabrication, optics, and chamber research.

2.0 SCOPE

The successful contractor shall provide support efforts for the NIKE and Electra research programs. This requires contractor efforts in research engineering for development of KrF lasers and other IFE technologies, as well as more routine design, fabrication, installation, repair and maintenance of research hardware and related equipment. The contractor shall provide design and engineering efforts as well as machining, fabrication, acquisition and assembly of hardware off site, and shall deliver systems and subsystems to NRL as contractor-acquired property. Some government-furnished equipment (GFE) may be included in these systems or subsystems (e.g., optical components to be mounted, vacuum components to be incorporated in systems, etc.). Design work will be done primarily off site, but will typically require frequent meeting (weekly) on site between the contractor's engineers and NRL researchers. In addition, the contractor shall provide technical and technical on-site support to mesh designs with existing hardware, and for assembly, debugging, maintenance and repair of research hardware delivered to NRL and to repair and modify existing hardware (such as laser amplifiers, vacuum systems, laser optical mounts, etc.). For the purpose of this statement of work, "on-site" is defined as the research facility at NRL, while "off-site" refers to the contractor's place of business, or other subcontractor facilities.

The contractor shall a) perform support efforts; b) design, fabricate and deliver to NRL, hardware required for operation of, and research with, the NIKE and Electra laser facilities; c) modify, repair and maintain existing equipment in support of on-going research efforts; and d) document system and subsystem performance. This work shall be performed pursuant to a series of Technical Directive Memoranda. These Technical Instructions for performance of design

and fabrication efforts on any particular piece of hardware will be issued by the COR over the lifetime of the contract, and will be limited by the level of effort specified by the contract. The contractor shall perform all such work in timely manner.

3.0 SPECIFIC REQUIREMENTS

Efforts required for the general areas of design, fabrication, operations, repair, maintenance, and advanced research are as follows:

3.1 Design

The contractor shall design specific pieces of hardware for use in the research carried out with the Nike and Electra facilities. This shall include, but may not be limited to, modifications, maintenance and repair of existing hardware or new systems, depending on the research in progress, during the lifetime of the contract. Design details, drawings and computer-aided design (CAD) disks and media shall be delivered to the COR as contractor-acquired product. Typical designs that have already been completed, but may require future modifications, include, but may not be limited to: a) design of a large 48-mirror turning array for laser beams; b) design of vacuum spatial filters for laser beams; c) design of the high-vacuum system for a large target chamber; and d) mechanical design of a large KrF laser chamber. Future projects that may fall under this requirement include, but may not be limited to: a) design of specialized translators; b) design of optics holders; and design and development of a rep-rate KrF laser amplifier cell and pulse power system. The Government anticipates that the required design work will be primarily mechanical, electro-mechanical, and opto-mechanical. The Contractor shall also provide electronics and control engineering efforts, as required by the COR.

3.2 Fabrication and Modification:

The contractor shall fabricate new hardware and modify existing hardware. These efforts may require that the contractor use of GFE and the acquisition of components through outside shops or distributors. Hardware resulting from this requirement shall be delivered to NRL for use in the experimental program. Examples of tasks anticipated under this requirement include, but may not be limited to: a) fabrication/modification of a large 48-mirror turning array for laser beams; b) fabrication/modification of vacuum spatial filters for laser beams; c) fabrication/modification of the high-vacuum system for a large target chamber; d) fabrication/modification of a large KrF laser chamber; e) fabrication/modification of specialized translators; f) fabrication/modification of optics holders; and g) fabrication/modification of a rep-rate KrF laser amplifier cell and pulse power system. The contractor shall provide a rapid response (defined as a 2-day turn-

around) to small scale machining and modification tasks, an example of which would be providing or modifying < 4-inch diameter custom vacuum flanges.

3.3 Maintenance and Repair of Facilities

The contractor shall both maintain and repair existing and newly fabricated hardware related to the research performed with the Nike and Electra facilities. This task may include, but may not be limited to, acquisition, design, and fabrication or modification of hardware to enable performance of the desired research.

3.4 Management of large-scale design, fabrication, and installation of subsystems for the Nike and Electra facilities

The Contractor shall manage efforts associated with major subsystems from design through fabrication and installation of the subsystem. Subsystems tasks assigned to the contractor may include, but may not be limited to: a) implementation of different diagnostics and data acquisition systems in the Nike 10-ft diameter by 20-foot long target chamber; b) development of laser gas recirculators or foil support structures for the existing laser systems; c) development of the next generation re-rate KrF laser large-aperture amplifier cells; d) new schemes for pulse power delivery to the amplifier cells. The contractor shall make a best effort in managing these systems; ensure that the costs are minimized in design, fabrication and installation of the subsystems; ensure that the work is completed in a timely manner; and ensure that the subsystems meet the research requirements.

3.5 Planning, acquisition and assembly of Complex System Components

The contractor shall locate sources, procure components, and assemble complex systems required for the research effort. This shall include, but may not be limited to: a) optical systems used to transport laser beams; b) diagnostic systems used for laser and target experiments; and c) large-scale (128-500 node) computer clusters fabricated from commodity components available from multiple vendors.

3.6 Engineering Research

The contractor shall provide on-site research, engineering, and technical development efforts in support of the Laser Plasma Branch mission. The required work is often on the cutting edge of research that is geared towards a specific problem of interest to the Branch. The work may require design of experimental hardware, development of an experimental program plan, data acquisition, data analysis, and, as appropriate, documentation and publication of results. The required engineering tasks may include, but may not be limited to: a) improvements in electron beam generation and transport into a laser chamber,

b) electron beam deposition, c) electron beam transmission windows, d) laser beam transport, and e) advanced optical systems.

4.0 TECHNICAL SUPPORT TASKS

The contractor shall provide design, fabrication, modification, operation, and maintenance efforts toward completion of, and research with, the Nike and Electra lasers in the following technical areas:

4.1 Maintenance and optimization of E-Beam Amplifiers

The two E-Beam pumped amplifiers utilize pulse charged waterlines to power the vacuum diodes that produce the electron beam that energize the KrF gas mixtures. The contractor shall provide electro-mechanical engineering support to provide modifications for improvement of the performance of both amplifiers. This task will require experience with: a) the design, fabrication and installation of high-vacuum systems; b) the handling of 5% fluorine laser-gas mixtures; c) the mounting of large (60 cm aperture) fragile (fused quartz) vacuum windows; d) use of high-strength materials required for constructing the gas/vacuum interface where the E-beam penetrates into the laser gas; and e) and the mechanical engineering aspects of pulse power using waterlines. The contractor shall also provide the technician support appropriate for installing and maintaining hardware on these laser amplifiers.

4.2 Laser Optical System

The Nike system utilizes several hundred reflective and refractive optics to direct the beams through the system and includes several large vacuum relay and telescopes. The contractor shall provide electro-mechanical support for the maintenance and modifications of the mounting systems and vacuum systems for the optics of the Nike laser. This task will require experience in high-vacuum systems, and in the design, fabrication and mounting of large single optics and arrays of optics with provision for minimal distortion of the optics and resistance to vibration. The contractor shall also provide appropriate technician support for installing the optics and vacuum system.

4.3 Target Facility

The target facility includes a large vacuum chamber and associated optics that direct laser beams onto targets, and instrumentation to diagnose both the laser beams and the laser-target interaction. The contractor shall provide electro-mechanical support for the vacuum system for the chamber, the target manipulation hardware, cryogenic target insertion systems, mounts and interfaces for instrumentation used to align targets and laser beams, and to study the laser-target interaction. This task will require experience in designing, fabricating and installing large high-vacuum chambers, in cryogenic technology,

and in designing one-of-a-kind mechanical instrumentation required for research. The contractor shall also provide technician support appropriate for maintaining the vacuum systems, installing and operating cryogenic subsystems, and instrument interfaces.

4.4 Electra Facility

The contractor shall provide engineering and engineering research support for the development of the Electra laser. This includes design, fabrication, installation, maintenance, and repair of: 1) the electron beam cathode; electron beam diagnostics; foil support "hibachi" structure; gas cooling recirculator; control, diagnostic and data acquisition systems; pulse power system; component design for an advanced front-end for the Electra laser; radiation shielding; and electrical systems.

5.0 DELIVERABLES

The contractor shall provide research reports, hardware, and hardware documentation for maintenance, operation and design drawings per DD1423 data item A003; cost status reports, progress reports and final reports in accordance with DD 1423 items A001, A002, and A004.

(1 Data Item)

Form Approved
OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 110 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503. Please DO NOT RETURN your form to either of these addresses. Send completed form to the Government issuing Contracting Officer for the Contract/PR No. listed in Block E.

A. CONTRACT LINE ITEM NO. 0002,0004,0006,0008,0010		B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____	
D. SYSTEM / ITEM		E. CONTRACT / PR NO. N00173-04-R-RS08		F. CONTRACTOR (To Be Provided at Contract Award)
G. DATA ITEM NO. A001	H. TITLE OF DATA ITEM MONTHLY COST AND PERFORMANCE REPORT			I. SUBTITLE
J. AUTHORITY (Data Acquisition Document No.)		K. CONTRACT REFERENCE CLIN 0002 and RFP References		L. RECORDING OFFICE NRL Code:
M. DD 250 REQ LT	N. DIST STATEMENT REQUIRED	O. FREQUENCY See Blk. 16	P. DATE OF FIRST SUBMISSION	Q. DISTRIBUTION
R. APP CODE		S. AS OF DATE See Blk. 16	T. DATE OF SUBSEQUENT SUBMISSION	U. ADDRESSEE
V. REMARKS The Contractor shall provide a Monthly Cost and Performance Report to the COR on a Monthly frequency beginning 45 days after contract award with subsequent submissions on the 10th of each month thereafter. DD 250 requirements shall be on an LT basis. The report may be in the Contractor's format and, as a minimum, shall contain the following information: (1) Contract Number (2) Reporting Period covered by Report (3) Total amount funded for Contract (4) Total amount invoiced to date, including a breakdown by ACRNs prorated in proportion to the unliquidated balance (5) Total amount invoiced for this reporting period (6) Estimated cost to complete, with explanation if more than total amount funded (7) Schedule status, indicating if efforts are on schedule or not, with explanations for delays and projected impact of delays (8) Contractor hours expended on NRL property, if any, including employee names, number of hours works, and specific contract task involved (9) Technical Progress, including a brief narrative on technical progress made, significant accomplishments, meetings attended, etc. (10) Briefs/Reports generated (11) Travel Activity (12) Plans for next month (13) Technical problem areas and potential solutions				W. COPIES
				X. DRAFT
				AA. TOTAL →
AB. PREPARED BY Richard D. Sewell		AC. DATE 16 AUG 2004	AD. APPROVED BY	
				AE. DATE

17. PRICE GROUP
18. ESTIMATED TOTAL PRICE

CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0002,0004,0006,0008,0010	B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____
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D. SYSTEM / ITEM	E. CONTRACT / PR NO. N00173-04-R-RS08	F. CONTRACTOR (To Be Provided At Time of Award)
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1. DATA ITEM NO. A002	2. TITLE OF DATA ITEM TECHNICAL & PROGRAM PROGRESS REPORTS	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SECTION C, ATTACHMENT 1	6. REQUIRING OFFICE NRL CODE:
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED	9. FREQUENCY SEE BLK. 16	10. DATE OF FIRST SUBMISSION SEE BLK. 16	11. AS OF DATE	12. DATE OF SUBSEQUENT SUBMISSION SEE BLK. 16	13. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Reg Repro
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14. REMARKS The Contractor shall provide semi-annual progress reports summarizing problems & areas of concern for which Govt. assistance or guidance is needed; state any anticipated deviation in the Contractor's plan to achieve scientific/technical objectives. The Contractor shall describe technical progress during the reporting period, cite major changes in the technical approach planned at the beginning of the reporting period, and specify any anticipated technical, logistic, or administrative problems. The report shall include the following topics: task-objectives, general technical approach, status at the beginning and end of the reporting period; important findings and their implications; and significant hardware and software developments. Unless stated otherwise, the format for all deliverables under this CDRL shall be the Contractor's format as reviewed and approved by the COR. Reports shall be provided on a semi-annual basis beginning 180 DAC and every 180 days thereafter.	15. TOTAL XX02 XX30 1 1
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1. DATA ITEM NO. A003	2. TITLE OF DATA ITEM FINAL REPORT	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE Section C & Attachment 1	6. REQUIRING OFFICE NRL CODE:
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7. DD 250 REQ DD	8. DIST STATEMENT REQUIRED	9. FREQUENCY ONE	10. DATE OF FIRST SUBMISSION	11. AS OF DATE SEE BLK. 16	12. DATE OF SUBSEQUENT SUBMISSION	13. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Reg Repro
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14. REMARKS For the purpose of this document, FINAL REPORT shall be a comprehensive summary of all scientific objectives, findings and recommendations, research, development and other efforts performed, and the results obtained over the entire contract period in all of the proposed task areas. The report shall be submitted to the COR on a one-time basis not later than 90 days after completion of the contract, and requires a DD-250 for acceptance by the COR.	15. TOTAL XX02 XX30 1 1
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G. PREPARED BY SEWELL, RICHARD D.	H. DATE 16 AUG 2004	I. APPROVED BY	J. DATE
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17. PRICE GROUP
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CONTRACT DATA REQUIREMENTS LIST

(2 Data Items)

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OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0002,0004,0006,0008,0010	B. EXHIBIT A	C. CATEGORY: TDP _____ TM- _____ OTHER _____
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D. SYSTEM / ITEM	E. CONTRACT / PR NO. N00173-04-R-RS08	F. CONTRACTOR (To Be Provided At Time of Award)
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1. DATA ITEM NO. A004	2. TITLE OF DATA ITEM DESIGNS, DRAWINGS AND SCHEMATICS	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE SECTION C, ATTACHMENT 1	6. REQUIRING OFFICE NRL CODE:
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7. DD 250 REQ LT	8. DIST STATEMENT REQUIRED	9. FREQUENCY ASREQ	10. DATE OF FIRST SUBMISSION ASREQ	11. AS OF DATE ASREQ	12. DATE OF SUBSEQUENT SUBMISSION ASREQ	13. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro
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14. REMARKS The Contractor shall provide Designs, Drawings, Schematics and other visual representations, which shall include, but may not be limited to: designs, drawings, documentation, plans, schematics, manuals, system block diagrams, as-built drawings, engineering drawings and lists; mechanical and electrical designs; informal engineering notes and drawings, equipment support illustrations; parts lists; and mechanical and electrical assembly drawings. If not specifically stated in the Statement of Work, the format of all deliverables under this CDRL shall be the Contractor's format as reviewed and approved by the COR.	15. TOTAL XX30 1
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1. DATA ITEM NO. A005	2. TITLE OF DATA ITEM OTHER DELIVERABLES	3. SUBTITLE
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4. AUTHORITY (Data Acquisition Document No.)	5. CONTRACT REFERENCE Section C & Attachment 1	6. REQUIRING OFFICE NRL CODE:
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7. DD 250 REQ DD	8. DIST STATEMENT REQUIRED	9. FREQUENCY ASREQ	10. DATE OF FIRST SUBMISSION ASREQ	11. AS OF DATE ASREQ	12. DATE OF SUBSEQUENT SUBMISSION ASREQ	13. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro
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14. REMARKS The Contractor shall provide any other deliverables that may be required under the Statement of Work, as applicable. If not specifically stated in the SOW, the format for all deliverables required under this CDRL shall be the Contractor's format as reviewed and approved by the COR.	15. TOTAL XX30 1
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G. PREPARED BY SEWELL, RICHARD D.	H. DATE 16 AUG 2004	I. APPROVED BY	J. DATE
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17. PRICE GROUP
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(1 Data Item)

Form Approved
OMB No. 0704-0188

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A. CONTRACT LINE ITEM NO. 0002, 0004, 0006, 0008, 0010		B. EXHIBIT A	C. CATEGORY: TDP _____ TM _____ OTHER _____	
D. SYSTEM / ITEM		E. CONTRACT / PR NO. N00173-04-R-RS08	F. CONTRACTOR To Be Provided At Time Of Award	
1. DATA ITEM NO. A006	2. TITLE OF DATA ITEM CONTRACTOR ON-SITE LABOR REPORT		3. SUBTITLE	
4. AUTHORITY (Data Acquisition Document No.)		5. CONTRACT REFERENCE SECTION C - ATTACHMENT 1	6. REQUIRING OFFICE NRL CODE:	
7. DD FORM REQUIRED LT	8. DIST STATEMENT REQUIRED N/A	9. FREQUENCY MNTLY	10. DATE OF FIRST SUBMISSION 30 DAC	11. DISTRIBUTION a. ADDRESSEE b. COPIES Draft Final Reg Repro
12. REMARKS The Contractor shall deliver On-Site Labor Reports no later than five (5) days after the end of each reporting month. The required report shall, as a minimum, include the following data: Reporting Period: Contract Number (and Order Number, if applicable): Contract Value: Current Funding: Amount Expended in Current Period: Total Expended to Date: Date Submitted: Labor (including subcontractors): Show employee name, number of hours, and total amount billed for contractor employees working on-site at NRL. If the contractor employees worked on multiple tasks (as defined by the COR), the number of hours worked on each task shall be shown separately.				
13. PREPARED BY SEWELL, RICHARD D.		14. DATE 16 AUG 2004	15. APPROVED BY 	
16. TOTAL		17. TOTAL		

**18. ESTIMATED
TOTAL PRICE**

ATTACHMENT 2 – PERSONNEL REQUIREMENTS

Below are the manpower requirements by labor category. Estimated total hours per labor category may be found at Contract Section H-3 – Level of Effort, which starts on Page 11 of this solicitation.

The proposal shall indicate the specific personnel to be assigned to this project, including their background, education, pertinent experience, and the approximate percentage of time each will be available for work on this project. The proposal shall show availability of sufficient key personnel and technical personnel to carry out the contract technical objectives.

Research Engineer or Applied Physicist (on site)	<i>key personnel</i>
Senior Mechanical Engineer	<i>key personnel</i>
Mechanical Engineer	<i>key personnel</i>
Technician	
Pulse Power Technician (on site)	<i>key personnel</i>
Cryo-Target Technician (on site)	<i>key personnel</i>
Machinist (on site)	
Laser Operator/Support Technician (on site)	<i>key personnel</i>

RESEARCH ENGINEER OR APPLIED PHYSICIST - The proposed Research Engineer or Applied Physicist shall, as a minimum, possess a PhD or equivalent degree in Physics, engineering physics, electrical engineering, or a similar field, a minimum of three years of demonstrable direct experience in KrF laser physics, including the areas of pulsed power, electron beam generation, propagation and transport, and/or electron beam pumped gas laser systems.

SENIOR MECHANICAL ENGINEER – The proposed Senior Mechanical Engineer shall, as a minimum possess a Bachelor of Science degree in from a 4-year accredited college or university, with a minimum of ten years of experience and progressive responsibility in applied disciplines associated with the design, manufacturing, testing and installation of mechanical, opto-mechanical and electro-mechanical equipment. The proposed Senior Mechanical Engineer shall possess demonstrable experience in the following specific areas:

- (a) Extensive experience in the design and fabrication of components for high-energy laser systems, which shall, as a minimum, include mechanical design and fabrication of both optical mounts for large diameter (>15 cm) lenses and mirrors, and motorized arrays of mirror mounts;
- (b) At least five years of demonstrable experience in the design, fabrication and installation of large high-vacuum chambers (> 500 liters volume) for research applications such as a target chamber for laser fusion research;

- (c) Successful management of at least two large-scale projects involving the design, fabrication and installation of unique equipment for research applications in laser development, high intensity laser-target interaction, or high-voltage pulse power development. Examples associated with this requirement include, but are not be limited to, a large target chamber system for a major laser research facility, a high energy (> 100 J. laser amplifier, or a large (>100 KJ) pulse power machine. At least one example shall be for work completed within the last 5 years; and
- (d) Demonstrable ability to solve unusual mechanical engineering problems that arise routinely in supporting research. Contractor shall provide specific examples of how the candidate fulfills this requirement.

MECHANICAL ENGINEER – The proposed Mechanical Engineer shall, as a minimum, possess a Bachelor of Science degree in engineering, with a minimum of three years of experience and progressive responsibility in applied disciplines associated with the design, manufacturing, testing and installation of mechanical, opto-mechanical and electro-mechanical equipment. The proposed Mechanical Engineer shall possess demonstrable experience in the following specific areas:

- (a) At lease three years of demonstrable experience in the mechanical design and fabrication of high-energy E-beam pumped laser amplifiers, or equivalent experience of similar complexity;
- (b) At least three years demonstrable experience in the design and fabrication of equipment for mounting and positioning optics for research applications, or equivalent experience of similar complexity;
- (c) Significant demonstrable experience in the design and installation of high-vacuum systems; and
- (d) Demonstrable ability to solve unusual mechanical engineering problems that arise routinely in supporting research. Contractor shall provide specific examples of how the candidate fulfills this requirement.

TECHNICIAN – The proposed Technician shall, as a minimum, possess 1 year of demonstrable experience in the fabrication, installation and testing of mechanical, opto-mechanical and electro-mechanical equipment in a laboratory environment, or equivalent.

PULSE POWER TECHNICIAN – The proposed Pulse Power Technician shall, as a minimum, possess five years of demonstrable experience in the design, manufacturing, testing and installation of mechanical, opto-mechanical and electro-mechanical equipment. The proposed Pulse Power Technician shall possess demonstrable experience in the following specific areas:

- (a) Significant demonstrable experience in high-vacuum electro-mechanical systems;

- (b) Significant demonstrable experience in the fabrication, installation and testing of apparatus in a laboratory environment; and
- (c) A minimum of two year demonstrable experience with assembly, testing and operation of water-line based pulse power machines in the 200 kJ or larger class.

CRYO-TARGET TECHNICIAN – The proposed Cryo-Target Technician shall, as a minimum, possess ten years of demonstrable experience in the design, manufacturing, testing and installation of state-of-the-art cryogenic equipment. The proposed Cryo-Target Technician shall possess demonstrable experience in the following specific areas:

- (a) Significant demonstrable experience in high-vacuum systems;
- (b) Significant demonstrable experience in the fabrication, installation and testing of apparatus in a laboratory environment; and
- (c) A minimum of five years demonstrable experience with assembly, testing and operation of cryogenic systems in pulse power and high power laser environments.

MACHINIST – The proposed Machinist shall, as a minimum, possess 10 years of machining experience, primarily in limited-production instruments for research and development. The requirements for this labor category shall include demonstrable experience in (a) tool and cutter grinding; (b) operation of sheet metal presses and brakes; (c) designing and machining of fixtures, gauges, tools and jigs; (d) finishing; (e) silver soldering and brazing; (f) machining to four place tolerance; and (g) specified surface finishes.

LASER OPERATOR/SUPPORT TECHNICIAN – The proposed Laser Operator/Support Technician shall, as a minimum, possess a high-school diploma or equivalent and a minimum of 2 years experience in a laboratory environment, or equivalent.

OTHER LABOR SPECIALTIES – The Government anticipates that additional specialists may be required on an as-needed basis, primarily for completion of assigned design tasks. Such specialized labor categories may include: a pulse-power engineer, an electron beam engineer/physicist, an optics engineer/physicist, an electronic control engineer, a systems engineer, and an optical physicist/engineer.

The Offeror may meet these "as-needed specialist" requirements by proposing current employees of the firm, consultants/subcontractors, or any combination of both, at the Offeror's discretion.

The anticipated cumulative number of hours associated with these "as-needed specialists" are provided in RFP Section H-3, Level of Effort.

The Offeror shall provide background data in its proposal to document the qualifications and expertise of each proposed "as-needed specialist". The requirements at RFP Section L-14(c) also apply to all consultants/subcontractors proposed for "as-needed specialists".

ATTACHMENT 3:
ACCOUNTING AND APPROPRIATION DATA

(ACCOUNTING AND APPROPRIATION DATA WILL BE PROVIDED AT THE
TIME OF AWARD)